ETS Hardware Reference Manual



16CHANNEL DIGITAL OUTPUT MODULE

ETS-DO16P

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Hardware Manual Revision: 1.0.1 Revision Data 2016, 02, 29

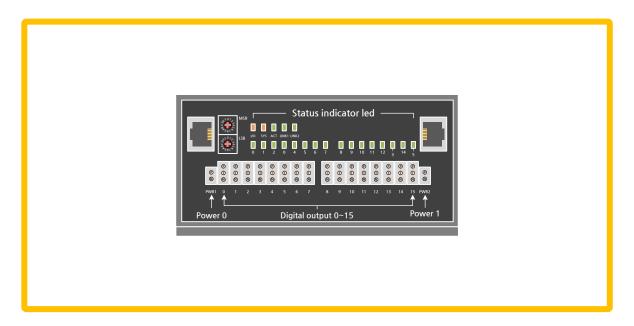


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개요



ETS Series - ETS-DO16P (Digital PNP Output 16ch)

ETS-DO16P는 EtherCAT 기반 제어기인 ETS Series의 16채널 Digital 출력 모듈입니다.

각 채널의 내부 제어신호와 외부 입출력 신호는 포토커플러를 사용하여 절연됩니다.

본 매뉴얼은 ETS-DO16P의 하드웨어 구성과 기능에 대해 설명하는 하드웨어 매뉴얼 입니다.



제품사양

■ Power Specification

ITEM	ETS-DO16P
Power Dissipation(System)	Max, 40mA @ 24.0V DC
Power Dissipation(I/O)	Max, 30mA @ 24.0V DC
Rated Input Voltage	24V DC (-15%/+20%, ripple ratio within 5%) EN 61131-2

■ Comm. Specification

ITEM	ETS-DO16P
Transmission speed for EtherCAT	100 Mbit/s with Full Duplex
MDI/MDI-X	MDI/MDI-X auto-crossover.
ESD Protection	Contact Discharge (Typ.) 4kV
ESD Protection	Air Discharge (Typ.) 8kV

Digital Specification

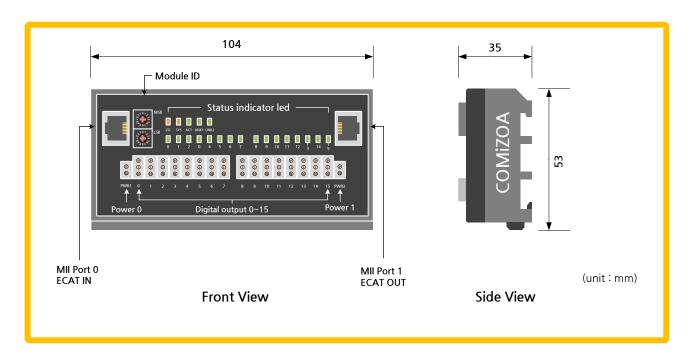
ITEM	ETS-DO16P
Number of Inputs	16 output (1 Wire)
Output Type (Module)	Source, Open Collector (PNP)
Isolation	Photo-coupler(Viso=3,000Vrms)
OFF State Current	Max, 100uA / Point
On State Max Sink Current	Max. 500mA / Point
Rds(On state resistance)	Max. 1.4Ω (±5%)
Over-Temperature Shutdown	160°C
Over-Current Shutdown	0.7A (Min.) ~ 2A (Max.)
Wiring contact	5264-03(DO 3Pin), 5264-02(PWR 2Pin)

■ Environmental Specification

ITEM	ETS-DO16P	
Dimension	104 * 53 * 35 (mm)	
Install	Industrial DIN rail	
Operating Temperature Range	0℃ ~ 50℃	
Storage Temperature Range	-20℃ ~ 80℃	
Operating Humidity Range	5% ~ 90%RH, non-condensing	
Storage Humidity Range	5% ~ 90%RH, non-condensing	



제품사양



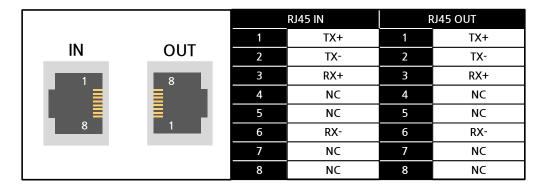
Dimension

DO16P

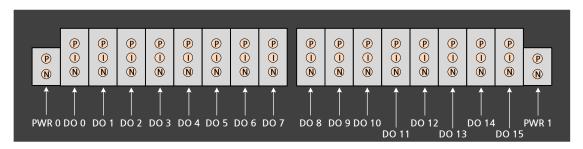


Wiring

■ RJ45 Connector

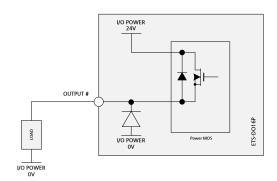


■ Contact Number

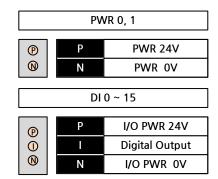


* All numberings are zero based

■ Circuit Diagram

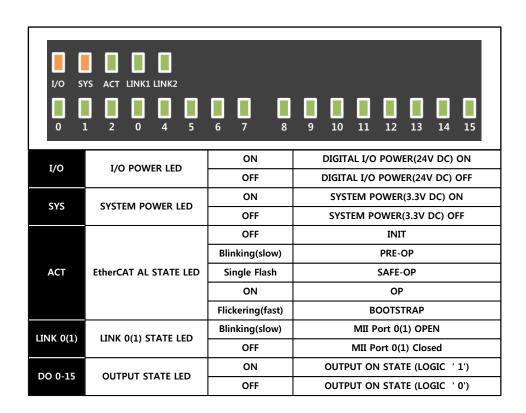


■ PIN MAP





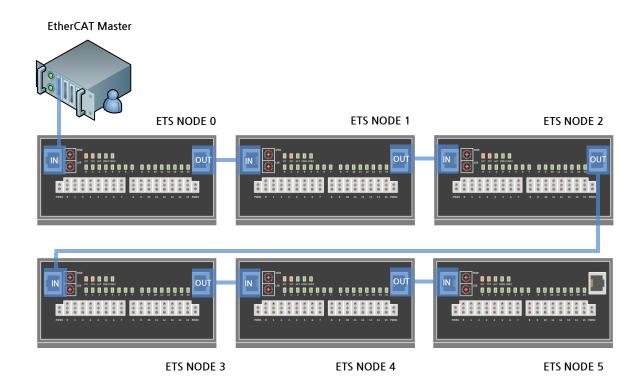
Indicators



DO16P



Interface Connect



Device ID Setting





Hardware Reference Manual Update List

No.	Version	Date	Changes in
1			First Edition
2	1.01	2016.02.29	글꼴변경 (나눔고딕, 굴림)

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COMIZOA *CO.,LTD* http://www.comizoa.com Tel) +82 - 42 - 936 - 6500 Fax) +82 - 42 - 936 - 6507

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